

Appl. No. : 09/993,874  
Filed : November 14, 2001

### AMENDMENTS TO THE CLAIMS

1 (currently amended): An isolated nucleic acid molecule encoding a green light emitting luciferase which hybridizes under high stringency conditions to a nucleotide sequence selected from the group consisting of:

- a) SEQ ID NO:1; and
- b) the complement of SEQ ID NO:1,

wherein said high stringency conditions correspond to washing in prewarmed (68°C) solution containing 0.1xSSC/0.1% SDS for 15 min at 68°C,

wherein the encoded green light emitting luciferase emits green bioluminescence having a maximum  $\lambda$  of approximately 549 nm when expressed in E coli.

2 (canceled)

3 (withdrawn): An isolated nucleic acid molecule encoding a red light emitting luciferase which hybridizes under high stringency conditions to a nucleotide sequence selected from the group consisting of:

- (a) SEQ ID NO.3, and
- (b) the complement of SEQ ID No.3,

wherein said high stringency conditions correspond to washing in prewarmed (68°C) solution containing 0.1xSSC/0.1%SDS for 15 min at 68°C,

wherein the encoded red light emitting luciferase emits red bioluminescence having a maxim  $\lambda$  of approximately 622 nm when expressed in E coli.

4 (canceled)

5 (canceled)

6 (canceled)

7 (currently amended): A vector comprising the isolated nucleic acid molecule as defined in Claim 1 ~~or 6~~.

8 (previously presented): A recombinant host cell comprising the vector as defined in Claim 7.

9 (withdrawn): The isolated nucleic acid molecule as defined in Claim 3 wherein the nucleic acid molecule has at least 90% identity.

10 (canceled)

11 (canceled)

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### **AMENDMENTS TO THE DRAWINGS**

Figure 1 has been amended to contain the sequence of SEQ ID NO: 1.